### **EXHIBIT 1**

28. LUG. 2005 17:45

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NR. 5820

P. 5 Glycerol monostearate (40%) - Hudong Products, CAS#: 123-94-4, 11099-07-3, 31566-31-1 (Glycer... Page 1 of 2

**ANNEX 1** 

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# Household Auxiliaries

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**Products** 

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#### :: Food Additives

- **Glycerol** monostearate Glycerol mono- and
- asterontath
- Glycarol triategrate
- Sodium alucanate / Potassium gluconata
- Mixed desarroyl and
- octanoyi giycerides
- Mona decanoyi cotanoyi glyceride
- Emulallying stabilizor for dairy products

#### :: Plastic Lubricants

- **PVC External Lubricant**
- **PVC External Lubricant**
- **G78**
- **PVC Internal Lubricant**
- G168
- **PVC Internal Lubricant G80**



### Glycerol monostearate (40%)

Product Name: Glycerol monostearate (40%)

Synonyms: Glycoryl monostearate; Glycerin monostearate; Stearic monoglyceride;

Monostearin; GMS

Chemical Name: Steanc acid glycerol monoester

GAS Registry Number: [ 123-94-4; 11099-07-3; 31566-31-1 ]

Molecular Formula: C<sub>21</sub>H<sub>42</sub>O<sub>4</sub> Molecular Weight: 358.56

Specifications:

Appearance White flakes or powder

Monoester, % 40 mln. fodine value (g l<sub>2</sub>/100g) 2.0 max.

Acid value (mg KOH/g) 2.0 max.

Saponification value (mg 160 - 175 KOH/g)

Freezing point, \*C 65 - 60

Soap content, % 2.0 max.

Arsenic (as As), ppm 3 max. Heavy metals (as Pb), ppm 10 max.

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NR. 5820 Glycerol monostearate (40%) - Hudong Products, CAS#: 123-94-4, 11099-07-3, 31566-31-1 (Glycer... Page 2 of 2

Iron (Fe), ppm

10 max.

Applications: A lipophilic non-lonic surfactant with HLB of 3.6 - 4.2. It has effects of emulsification, dispersion, fearning, defeating, starch anti-aging and lat agglemeration co. and is widely used in foodstuffs, cosmetic, medicine and plastic processing industries. It is emulaifier used the most widely and in the largest quantities in the foodstuff industry. Packaging: 25 Kg per sack (flakes of powder), or 25 Kg per carton (lumps). Storage: Stored in dry and cool places. Shelf life: 1 year.

inquiry for Givoerol monostearate

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Kao's Fatty Esters 4.(1), Glycerol fatty acid esters

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Kao Corporation, Chargioni Business Ofvision

"Fatty esters"

Fatty esters 4.(1)

november 2003

#### **EXCEL** sories

#### Glycerol fatty acid esters

#### 1. Description, and Specification

П@(Appearance, Color, Acid value, Saponification value, Iodine value, Hydroxyl value)

		Specification							
Product name	Description /	Appearance (at 25 C)	Color (*: When molten)	Acid value	Saponification value	lodine value	Free giyeerin content (%)		
EXCEL T-95	Glycerol monostearate	White beads	APHA 200 max, *	2 max.	155 to 165	2 max.	2 max.		
EXCEL T-95 POWDER	Glycerol monostearate	White powder	APHA 200 max. *	2 max.	155 to 165	2 max.	2 max.		
EXCEL VSD)95	Glycerol / Monopalmitate / stearate	White beads	APHA 200 max. *	2 max.	Ester value 155 to 165	2 max.	2 max		
EXCEL	Glicerol	White	АРНА	3		75 to			

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Kao's Fatty Esters 4.(1), Glycerol fatty acid esters

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0-95R	monooleate	waxy solid	200 max. *	max.	•	85	2 тах.
EXCEL P-40	Glycerol monostearate and distaarate	White powder	Gardner 3 max.	3 max.	<u>-</u>	3 тах.	4 max.
EXCEL P-40S	Glycerol monostearate and distearate	White powder	Gardner 3 max. *	3 max.	163 to 173	`.	5 max.
EXCEL 122V	Glycerol monosteerate and distearate, monooleate and dioloate	Light yellow paste	Gardner 5 max. *	3 max.	-	-	1.5 mex.
EXCEL 200	Glycerol monostearate and distoarate, monooleate and dioleate	White powder	APHA 300 max. *	3 пах.	-	14 to 18	-
EXCEL 300	Glycerol monooleate and dioleate	Light yellow liquid	Gerdner 5 max.	2 max.	140 to 160	55 to 70	

# 2. Specification (Total monoglyceride content, Melting point) HLB, Viscosity, Solubility, EINECS No. cand Packing

	Total monoglyceride	HLB	Melting point (C)	Viscosity (mPa.s)	Solubility <sup>(1)</sup> (10% sol., at 25 C)				SP value (2)
	content(%)				Water	Ethanol	n- Hexane	Xylene	(Hoy) [(MPa) <sup>1/2</sup> ]
EXCEL T-95	95 mia.	3.8	63 to 68	80 C 28	I	D	Ţ	Ď	17.55
EXCEL T-95 POWDER	95 min.	3.8	63 to 68	80 C 28	I	D	I	D .	-
excel VS 0195	95 m <del>i</del> n.	3.8	63 to <b>6</b> 8	-	I	D	ı	D	<b>L</b>

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V8D]95		<u> </u>			<u> </u>			1	ļ ,
EXCEL O-95R	93 min.	3.5	36 to 40	-	I	8	r	s	19.13
EXCEL P-40	45min. (alpha-MG <sup>(4)</sup> )	2.8	50 to 60	80 C 21	I	I	I	· D	-
EXCEL. P-40S	35 min. (alpha-MG)	2.8	55.5 to 59.5	80 C 26	D	1	I	D	-
EXCEL 122V	52 min. (alpha-MG)	3.0	•	60 C 42	ľ	н	D	Ħ	-
EXCEL 200	79 min.	3.5	54 to 60	74 C 29	I	D	I	D	
EXCEL 300	43 to 53 (alpha-MG)	2.8		30 C 122	I	\$	\$	S	17.80

(1) Solubility S: Clearly soluble, H: Hazy, D: Slightly soluble, I: Insoluble, G: Gel

(2)SP value: 1.00(Mpa)<sup>1/2</sup>=2.046(cal/cm<sup>3</sup>)<sup>1/2</sup>
(3)All products are registered on TSCA.

(4)alpha-MG: alpha-monoglycoride

#### 3. Urage

Emulsifier and additive for foods; EXCEL T-95, T-95 POWDER, VS-95, O-95R, P-40, P-40S, 122V, 200, 300

Emulsifier for spin finishes and oiling agent for textile; EXCEL T-95, T-95 POWDER, VS-95, O-95R, P-40, P-40S, 122V, 200, 300

Antifogging agent for plastic films, plastic lubricant; EXCEL T-95, T-95 POWDER, VS-95, O-95R, P-40, P-40S, 122V, 200, 300

Antistatic agent for plastics; EXCEL T-95, T-95 POWDER, VS-95, O-95R, P-40, P-408, 122V, 200, 300

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